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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,025	09/05/2003	Mark P. Goldenfield	ARF 2002-014	9046
7	590 07/08/2004	.,	EXAMINER	
Joseph C. Spadacene			BEHREND, HARVEY E	
Westinghouse l	Electric Company LLC			
4350 Northern	Pike		ART UNIT	PAPER NUMBER
Monroeville, F	PA 15146		3641 DATE MAILED: 07/08/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	10
Office Action Summary	10/657,025	GOLDENFIELD ET AL.	V
Office Action Summary	Examiner	Art Unit	
	Harvey E. Behrend	3641*	
The MAILING DATE of this communication app Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communicati D (35 U.S.C. § 133).	ion.
Status			
Responsive to communication(s) filed on	15/04		
2a) This action is <b>FINAL</b> . 2b) ☐ This	action is non-final.	<i>C</i>	
3) Since this application is in condition for allowar		secution as to the merits	is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Disposition of Claims			
4) Claim(s) /// is/are pending in the applicatio 4a) Of the above claim(s) /// is/are withdraw	n.		
4a) Of the above claim(s) 16/2 is/are withdray	vn from consideration.		
5) Claim(s) is/are allowed.  6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	r.		
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) $\square$ objected to by the I	Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	)-(d) or (f).	
1. Certified copies of the priority documents	s have been received		
2. Certified copies of the priority documents		ion No.	
3. Copies of the certified copies of the prior	• •		
application from the International Bureau	-	<b>U</b>	
* See the attached detailed Office action for a list		ed.	
			,
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/5/03	Paper No(s)/Mail Da		
IS Patent and Trademark Office	-		

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1. Applicants election without traverse in the 3/15/04 response of specie II, is acknowledged.

Applicant lists claims 1-10, 13, 14 as readable on the elected specie.

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the features of claims 8, 9, 13 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-10, 13, 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are vague, indefinite and incomplete in failing to recite what distinguishes the auxiliary grid from the main support grid. Such appears critical to the invention as it does not appear from the specification that he invention would operate as

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intended if the auxiliary grids were identical to the main support grids. See MPEP 2172.01.

Claim 1 is vague, indefinite and incomplete as to how and in what manner, the auxiliary grid can have <u>more</u> than one support cell for each fuel element (note the language "at least one" also reads on <u>more</u> than one).

There is no proper antecedent basis in claim 8 for the term or phrase "corresponding dimples and/or springs" as such has not been recited as being present on the walls of the main support grids.

The statement in claim 8 that the dimples and/or springs on the auxiliary grids have a larger contact area than that on the main support grids, renders the claims vague, indefinite, misdescriptive and inaccurate as it is contrary to the specification in the sentence bridging pages 11 and 12.

- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-7, 9, 13 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Dailey.

Note Figs. 2, 3 and col. 3 lines 10+.

8. Claims 1-6, 13, 14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Oyama et al.

Note Figs. 4-10. Figs. 9 and 10 show the guide tabs recited in applicants claim 14.

9. Claims 1-6, 8-10, 13, 14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Anthony.

Note Figs. 1-6, col. 4 lines 39+, col. 6 lines 26-50, col. 7 lines 20+, <u>col. 8 lines</u> 56+.

10. Claims 1-9, 13, 14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Canat et al (I).

وروا المُعْدُدُ وَالْمُعَادِّ مُعْدُ وَمُعَادِي السَّاسَانِي فَيْ أَجْدُ وَالْمُعَادِي وَالْمُعَادُ الْمُعَادُ وَالْمُعَادِينَ وَالْمُعِلِّذِينَ وَالْمُعِلِّ اللَّهِ وَالْمُعِدِينَ وَالْمُعِدِينَ وَالْمُعِلِّذِينَ وَالْمُعِينَ وَالْمُعِينَ وَالْمُعِينَ وَالْمُعِدِينَ وَالْمُعِدِينَ وَالْمُعِدِينَ وَالْمُعِينَ وَالْمُعِينَ وَالْمُعِينَ وَالْمُعِينَ وَالْمُعِلِينَ وَالْمُعِلِّ وَالْمُعِلِينَ وَالْمُعَ

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Note the drawings and cols. 1, 4 and 6. Figs. 1, 6, 7, 11 show the features of applicants claim 14.

11. Claims 1-10, 13, 14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Doshi (cited by applicant).

Note the drawings. Fig. 3 shows the features of applicants claim 14. Note that the annular grid has one support cell for each fuel element extending therethrough (e.g. it does not have <u>one</u> support cell for <u>two</u> fuel elements).

12. Claims 1-10, 13, 14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 1 recites that the auxiliary grid has <u>at least one support cell</u> for <u>each</u> fuel element (meaning the claim includes the situation wherein there are a <u>plurality</u> of support cells for <u>each</u> fuel element).

However, there is no adequate description nor enabling disclosure of how and in what manner such could actually be accomplished.

- 13. The other references cited further illustrate pertinent art.
- 14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harvey Behrend whose telephone number is (703) 305-1831. The examiner can normally be reached on Tuesday to Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone, can be reached on (703) 306-4198. The fax phone number for the organization where this application or proceeding is assigned is (703) 306-4195.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-1113.

Behrend/vs June 16, 2004 HARVEY E. BEHREND PRIMARY EXAMINER